

**Name of Work:- Improvements to roads and drains in Sanjeevininagara in ward No.07,
Byatarayanapura**

Estimate Cost:- 50.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.142.Item No.19.1)								
	Basic Rate:	cum	82.00						
	Area Weightage @ 6%		4.92						
	Total		86.92						
	CC ROAD								
	3rd cross		1	60.00	2.00	0.20	24.00		
	cross road		1	15.00	1.30	0.20	3.90		
	Cross road		1	25.00	1.20	0.20	6.00		
	Cross road		1	60.00	1.80	0.20	21.60		
	Cross road		1	30.00	1.50	0.20	9.00		
	Cross road		1	30.00	2.00	0.20	12.00		
	Cross road		1	20.00	2.00	0.20	8.00		
	Cross road		1	15.00	1.40	0.20	4.20		
	Cross road		1	25.00	1.00	0.20	5.00		
	Cross road		1	10.00	2.50	0.20	5.00		
	Cross road		1	25.00	2.00	0.20	10.00		
	Cross road		1	35.00	1.00	0.20	7.00		
	Cross road		1	15.00	1.00	0.20	3.00		
	Cross road		1	13.00	1.00	0.20	2.60		
	Cross road		1	38.00	2.40	0.20	18.24		
	Cross road		1	25.00	1.20	0.20	6.00		
	Cross road		1	40.00	3.00	0.20	24.00		
	Cross road		1	50.00	3.00	0.20	30.00		
	Cross road		1	30.00	3.00	0.2	19.80		
	Culvert		1	1.00	5.00	0.60	3.00		
	RCC Drain(Backside of the Govt school)		1	53.00	0.75	0.90	35.78		
	Retaining Wall		1	5.00	1.00	1.20	6.00		
	Mungurappa Layout- RCC Drain								
	cross road		2	75.00	0.75	0.90	101.25		
	Road joining Amruthalli colony road		1	230.00	0.75	0.90	155.25		
							520.62	86.92	45251.86
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.12, It.4.3)								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						

	Total		5159.02						
	3rd cross	1	60.0	2.0	0.10	12.00			
	cross road	1	15.0	1.3	0.10	1.95			
	Cross road	1	25.0	1.2	0.10	3.00			
	Cross road	1	60.0	1.8	0.10	10.80			
	Cross road	1	30.0	1.5	0.10	4.50			
	Cross road	1	30.0	2.0	0.10	6.00			
	Cross road	1	20.0	2.0	0.10	4.00			
	Cross road	1	15.0	1.4	0.10	2.10			
	Cross road	1	25.0	1.0	0.10	2.50			
	Cross road	1	10.0	2.5	0.10	2.50			
	Cross road	1	25.0	2.0	0.10	5.00			
	Cross road	1	35.0	1.0	0.12	4.20			
	Cross road	1	15.0	1.0	0.12	1.80			
	Cross road	1	13.0	1.0	0.12	1.56			
	Cross road	1	38.0	2.4	0.12	10.94			
	Cross road	1	25.0	1.2	0.12	3.60			
	Cross road	1	40.0	3.0	0.12	14.40			
	Cross road	1	50.0	3.0	0.12	18.00			
	Cross road	1	30.0	3.0	0.12	10.80			
	Culvert	1	1.0	5.0	0.12	0.60			
	RCC Drain(Backside of the Govt school)	1	53.0	0.75	0.10	3.98			
	Retaining Wall	1	5.0	1.0	0.15	0.75			
	Mungurappa Layout- RCC Drain								
	cross road	2	75.0	0.75	0.12	13.50			
	Road joining Amruthalli colony road	1	230.0	0.75	0.12	20.70			
						159.18	5159.02	821207.64	
3	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17)								
	Basic Rate:	Ton ne	56050.00						
	Area Weightage @ 6%		3363.00						
	Total		59413.00						
	For RCC Drain					38.18			
			At 50 Kg % per cum			19.09			
	For Retaining wall					0.75			
			At 120 Kg % per cum			0.83			
				or say		19.91	59413.00	1183061.36	
4	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	Basic Rate:	Sqm	366.00						

	Area Weightage @ 6%		21.96						
	Total		387.96						
	For RCC Drain side wall		4	53.00		0.60	127.20		
	Mungurappa Layout- RCC Drain								
	cross road		8	75.00		0.45	270.00		
	Road joining Amruthalli colony road		8	230.00		0.45	828.00		
	For retaining wall		2	5.00		3.60	36.00		
							1261.20	387.96	489295.15
5	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)								
	Basic Rate:	cum	6011.00						
	Area Weightage @ 6%		360.66						
	Total		6371.66						
	Sanjeevininagara behind govt school								
	Rcc Drain- Side wall		2.00	53.00	0.12	0.60	7.63		
	Rcc Drain- Bottom		1.00	53.00	0.75	0.10	3.98		
	Mungurappa Layout- RCC Drain						0.00		
	Side wall	2x2	4.00	75.00	0.12	0.60	21.60		
	Bottom		1.00	75.00	0.75	0.12	6.75		
	Road joining Amruthalli colony road Side wall		2.00	230.00	0.12	0.60	33.12		
	Bottom		1.00	230.00	0.75	0.12	20.70		
	Retaining wall		1.00	5.00	0.60	3.60	10.80		
							104.58	6371.66	666329.09
6	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per								
	DETA RATE	Sqm							
	RCC Drain covering		1	53	0.90		47.70		
	Mungurappa Layout- RCC Drain								
	cross road		2	75	0.60		90.00		

	Road joining Amruthalli colony road		1	230	0.60		138.00		
							275.70	1836.00	506185.20
7	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplasticiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) and spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished in a continuous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, separation membrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specification. M20 (AT 300 Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum) (Pg No.177, It No.22.6.1)								
	Basic Rate:	cum	5866.00						
	Area Weightage @ 8%		469.28						
	Total		6335.28						
	3rd cross		1.00	60.00	2.00	0.10	12.00		
	cross road		1.00	15.00	1.30	0.10	1.95		
	Cross road		1.00	25.00	1.20	0.10	3.00		
	Cross road		1.00	60.00	1.80	0.10	10.80		
	Cross road		1.00	30.00	1.50	0.10	4.50		
	Cross road		1.00	30.00	2.00	0.10	6.00		
	Cross road		1.00	20.00	2.00	0.10	4.00		
	Cross road		1.00	15.00	1.40	0.10	2.10		
	Cross road		1.00	25.00	1.00	0.10	2.50		
	Cross road		1.00	10.00	2.50	0.10	2.50		
	Cross road		1.00	25.00	2.00	0.10	5.00		
	Cross road		1.00	35.00	1.00	0.10	3.50		
	Cross road		1.00	15.00	1.00	0.10	1.50		
	Cross road		1.00	13.00	1.00	0.10	1.30		
	Cross road		1.00	38.00	2.40	0.10	9.12		
	Cross road		1.00	25.00	1.20	0.10	3.00		
	Cross road		1.00	40.00	3.00	0.10	12.00		
	Cross road		1.00	50.00	3.00	0.10	15.00		
	Cross road		1.00	30.00	3.00	0.10	9.00		
							108.77	6335.28	689088.41
8	Vaccum De-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery screed vibratory, power floater, blade and disc etc., with all leads and lift. (P177, It No. 22.7)								
	Basic rate	Sqm	90.00						
	Add A.W. 8%		7.20						

	Total		97.20						
	3rd cross		1.00	60.00	2.00		120.00		
	Cross road		1.00	20.00	2.00		40.00		
	Cross road		1.00	38.00	2.40		91.20		
	Cross road		1.00	40.00	3.00		120.00		
	Cross road		1.00	50.00	3.00		150.00		
					Total:-		521.20	97.20	50660.64 ✓
9	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick well compacted cost of all materials labour curing complete as per specification (Data Rate)								ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 Lefty bank only
	DETA RATE	Sqm							
	Culvert covering		6	1.8	0.60		6.48	5111.00	33119.28 ✓
10	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								enclosed memo dated 19-4-2004 Rs. 50.00 2042
	Basic Rate cum		68.00				515.00	106.00	54590.00 ✓
	Rs. 2.50 Tonne Km.								SC 4) OR / AS 23 / 12-0
	Average Weight of earth 1.28 Tonne/Km. For 10 Km								dated 19-4-2004 Rs. 50.00 2042
	Rs.2.50X1.28TonneX10K		32.00						Joint Commissioner (Yelahanka Zone) B&M.C. Bengaluru-92
	Total		100.00						
	Add Area Weightage 6%		6.00						
			106.00						
11									
							Sub Total		4538788.63 ✓
12							KRIDL Charges 8%		363103.09 ✓
13							Total		4901891.72 ✓
14							Add 1% Labour cess charges		49018.92 ✓
15							Add 1% Third party inspection charges		49018.92 ✓
16							Miscellaneous charges		70.45 ✓
17							Total		5000000.00 ✓

- 1) This is certified that the work spot comes under BBMP limits only.
- 2) The work spot is inspected by me
- 3) The items Provided in the Estimate are quite Essential
- 4) The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

[Signature]
Asst. Engineer
Ward no.7

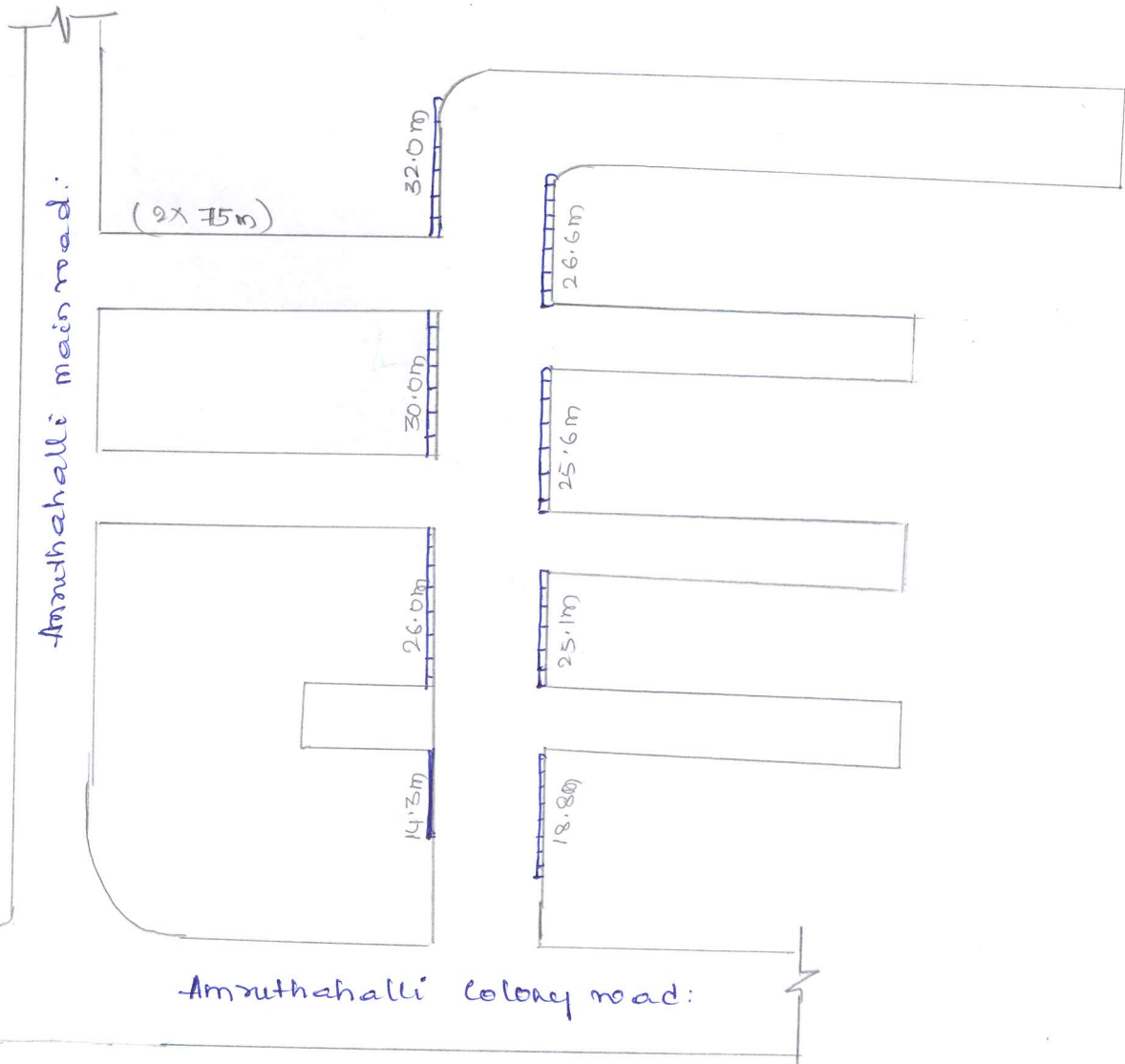
[Signature]
Asst. Exe. Engineer
Kodigehalli Sub-division
B.B.M.P.

[Signature]
Executive Engineer
Byatrayanapura Division
B.B.M.P.

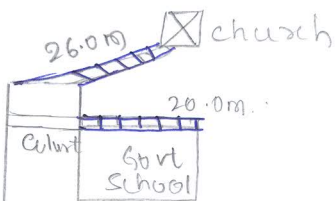
Technical Sanction
Accorded For Rs. 50.00 lakhs
Head of A/C P3111
CER NO: 28 Dt: 19/04/17

[TA] [CE (YNK)]

Improvements to roads and drains in sargeevininagara in ward 7
by alasayanapura:



MUNGURAPPA LAYOUT



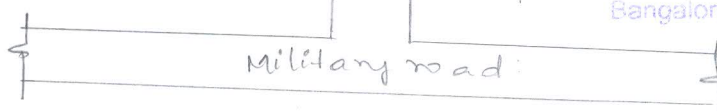
INDEX

c = culvert

▨ = RCC drain

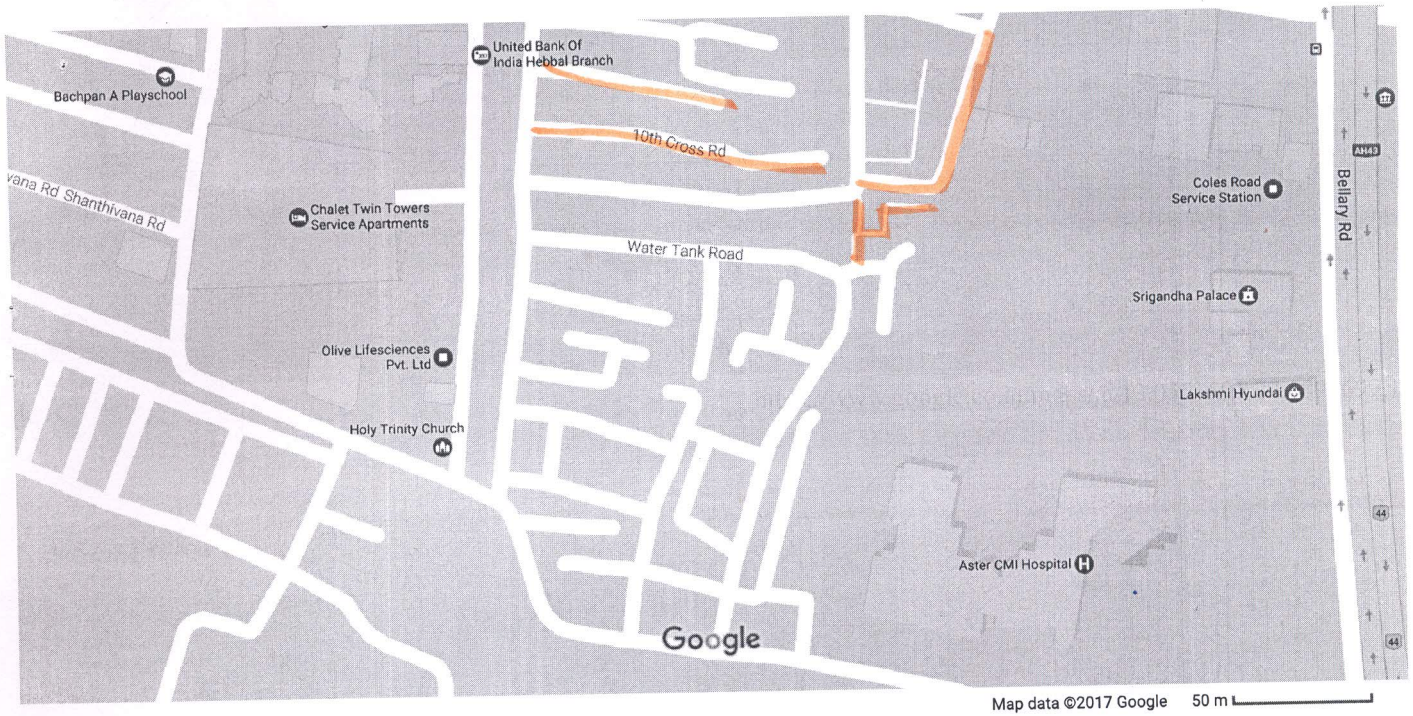
M. P. L. N. D.
AE (W. 7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palika
Bangalore - 560 092



Name of work: - Improvement to roads and drains in Sangeerini Nagar
in ward no 07, byatarayanapura: 16

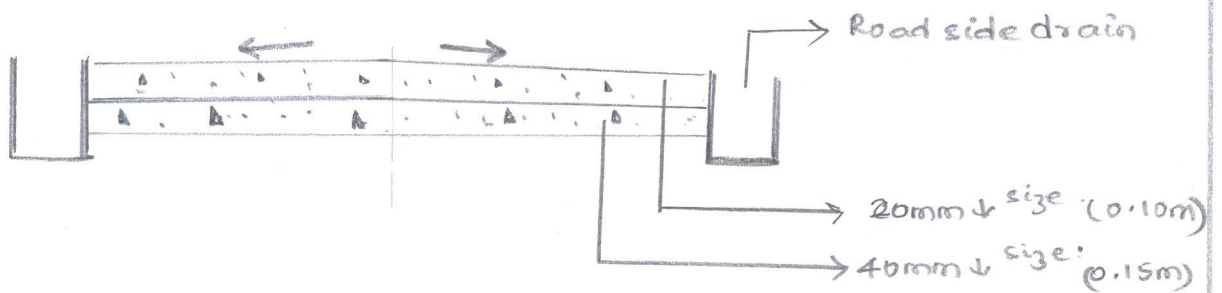
Google Maps



Subpally N-D
-AE (27)

Subpally
Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name of Work:- Improvements to roads and drains in
Sargeeniniagara in Ward No-07, byataraya-
-napurai



CROSS - SECTION OF CC-ROAD.

As Lp U.N.D
AEL(w)

As
Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092